

CLAIMS

1. - Noise reduction conduit for non rotary components of aircraft engines, subjected to a characteristic range of temperatures of a gas turbine engine, characterized in that it is constituted of an annular structure composed of an aerodynamic wet wall (10a, 10b), perforated and resistant mechanically and thermally; of a dry wall (12a, 12b), not resistant and of light weight; and of some intermediate elements to which both walls are mechanically attached and that define a jump or difference of temperature between the wet and dry walls; between which wet (10a, 10b) and dry walls (12a, 12b) there are partitions that define cavities (16a, 16b) isolated with regard to each other.
- 15 2. - Conduit according to claim 1, characterized in that it has a revolution configuration.
3. - Conduit according to claim 1, characterized in that the dry wall defines with the wet wall several cavities, in circumferential direction as well as in axial direction.
- 20 4. - Conduit according to claim 1, characterized in that the mentioned cavities are filled with a structure or material with acoustic damping characteristics.
5. - Conduit according to claim 1, characterized in that the mentioned cavities are filled with a structure or material that provides acoustic absorption characteristics to the package.
- 25 6. - Conduit according to claim 1, characterized in that the intermediate elements joining both walls consist of resistant elements or axial stiffeners (11a, 11b).
- 30 7. - Conduit according to claims 1, 4 and 5, characterized in that the intermediate elements joining both walls consist of the structure that fill the mentioned cavities.

8. - Conduit according to claim 1, characterized in that the mentioned structure is hybrid, the wet and dry walls being constituted of different materials.

9. - Conduit according to claim 1, characterized in 5 that the wet wall is provided with structural reinforcement ribs.

10. - Conduit according to claim 1, characterized in that it is constituted of independent components, connected to each other by means of removable joining 10 elements.

11.- Conduit according to claim 1, characterized in that the intermediate elements joining both walls consist of a honeycomb structure (18a), defining directly cavities isolated with regard to each other.